

Part 7 - Conditional Constructs in Java

I.Objective Type Questions:

1. What is the value of variable x?
int a = 99, b= 76;
boolean x = (a > b) ? true : false;
A) true
B) false
C) 99
D) 76
2. What is the value of variable x?
int a = 99, b= 76;
int x = (a < b) ? a : b;
A) true
B) false
C) 99
D) 76
3. An if-else statement can be represented by which operator in Java?
A) iff
B) ?
C) !
D) ?:
4. Which option is the correct rewrite of the following statement?
if (salary > 10000)
 bonus = salary * 0.1;
else
 bonus = 0;
A) bonus = (salary > 10000) ? salary * 0.1 :
B) salary = (salary > 10000) ? salary * 0.1 : 0;
C) salary = (bonus > 10000) ? salary * 0.1 : 0;
D) bonus = (bonus > 10000) ? salary * 0.1 : 0;
5. Given the following code snippet:

int x = 1, y = 1;
if (n > 0)
{
 x++;
 --y;
}

What will be the value of x and y when n = 0?

- A) x = 2, y = 0
- B) x = 0, y = 2
- C) x = 1, y = 0
- D) x = 1, y = 1**

6. Given the following code snippet:

```
int x = 1, y = 1;  
if (n > 0)  
{  
    x++;  
    --y;  
}
```

What will be the value of x and y when n = 1?

- A) x = 2, y = 0**
- B) x = 0, y = 2
- C) x = 1, y = 0
- D) x = 1, y = 1

7. What type of type casting is shown in the following statements?

- 1) char c = (char) 120;
- 2) int x = 't';

- A) Explicit in both 1) and 2)
- B) Implicit in both 1) and 2)
- C) Explicit in 1) and Implicit in 2)**
- D) Implicit in 1) and Explicit in 2)

8. Which statement(s) is/are true for the given code snippet?

```
if (x = y);  
    x = 0  
else  
    x++
```

- A) The assignment operator is used instead of the equality operator
- B) There should be no semicolon after if (x = y);
- C) Semicolon is required after x = 0 and x++
- D) All of the above are true**

9. Given the following code snippet.

```
String grade = (marks >= 90) ? "A": (marks > 80) ? "B" : "C";
```

What will be the value of grade when marks = 81?

- A) A
- B) B**
- C) C
- D) Runtime error

10. Given the following code snippet.

```
int p = 3, q = 2, r = 1;  
switch(n)  
{  
    case 1: p++;  
    case 2: q++;  
    case 3: r++;  
}
```

What will be the value of p, q and r when n = 2?

- A) **p = 3, q = 3, r = 2**
- B) p = 3, q = 3, r = 3
- C) p = 3, q = 2, r = 2
- D) p = 3, q = 2, r = 1

11. Given the following code snippet.

```
int p = 3, q = 2, r = 1;  
switch(n)  
{  
    case 1: p++;  
    case 2: q++;  
    case 3: r++;  
}
```

What will be the value of p, q and r when n = 0?

- A) p = 3, q = 3, r = 2
- B) p = 3, q = 3, r = 3
- C) p = 3, q = 2, r = 2
- D) p = 3, q = 2, r = 1**

12. Which statement will produce the absolute value of variable x?

- A) $x = x < 0 ? -x : -x;$
- B) $x = x < 0 ? x : -x;$
- C) $x = x > 0 ? -x : x;$
- D) $x = x < 0 ? -x : x;$**

13. Which keyword is optional in the switch statement?

- A) switch
- B) case
- C) default**
- D) None of the above

14. Which keyword is mandatory in the switch statement?

- A) break
- B) case**
- C) default
- D) return

15. if $((a < b) \ \&\& \ (a < c))$, then which of the following statement is true?

- A) a is the smallest number**
- B) b is the smallest number
- C) c is the smallest number
- D) b is the largest number